

## 5 SEQUENCE LISTINGS

<110> Maxygen ApS

<120> Factor VII or VIIa-like molecules

10 <130> 0212WO100

<140>

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15 <160> 11

<170> PatentIn Ver. 2.1

<210> 1

20 <211> 406

<212> PRT

<213> Homo sapiens

<220>

25 <221> MOD\_RES

<222> (6)..(35)

<223> Xaa = gamma carboxyglutamic acid or glutamic acid

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Cys Lys Xaa Xaa Gln Cys Ser Phe Xaa Xaa Ala Arg Xaa Ile Phe Lys  
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35 Asp Ala Xaa Arg Thr Lys Leu Phe Trp Ile Ser Tyr Ser Asp Gly Asp  
35 40 45

40 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln  
50 55 60

Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn  
65 70 75 80

45 Cys Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly  
85 90 95

Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys  
100 105 110

50 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr  
115 120 125

55 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg  
130 135 140

Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro  
145 150 155 160



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 Asn Ala Phe Leu Glu Glu Leu Arg Pro Gly Ser Leu Glu Arg Glu Cys  
 5 10 15  
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 Lys Glu Glu Gln Cys Ser Phe Glu Glu Ala Arg Glu Ile Phe Lys Asp  
 20 25 30  
 gct gag cgg acc aaa ctg ttt tgg att agc tat agc gat ggc gat cag 261  
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 35 40 45  
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 50 55 60 65  
 cag agc tat atc tgc ttc tgc ctg cct gcc ttt gag ggg cgc aat tgc 357  
 Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn Cys  
 70 75 80  
 gaa acc cat aag gat gac cag ctg att tgc gtc aac gaa aac ggg ggc 405  
 Glu Thr His Lys Asp Asp Gln Leu Ile Cys Val Asn Glu Asn Gly Gly  
 85 90 95  
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 Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys Arg  
 100 105 110  
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 Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr Pro  
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 Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg Asn  
 130 135 140 145  
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 Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro Lys  
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 165 170 175  
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 Cys Gly Gly Thr Leu Ile Asn Thr Ile Trp Val Val Ser Ala Ala His  
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5 Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu Gly  
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10 gaa cac gat ctg tcc gag cat gac ggg gac gaa cag tcc cgc cgg gtg 789  
Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg Val  
210 215 220 225

15 gct cag gtc atc att ccc tcc acc tat gtg cct ggc acg acc aat cac 837  
Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn His  
230 235 240

20 gat atc gct ctg ctc cgc ctc cac cag ccc gtc gtg ctc acc gat cac 885  
Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp His  
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25 gtc gtg cct ctg tgc ctg cct gag cgg acc ttt agc gaa cgc acg ctg 933  
Val Val Pro Leu Cys Leu Pro Glu Arg Thr Phe Ser Glu Arg Thr Leu  
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30 gct ttc gtc cgc ttt agc ctc gtg tcc ggc tgg ggc cag ctg ctc gac 981  
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35 cgg ggc gct acc gct ctc gag ctg atg gtg ctc aac gtc ccc cgg ctg 1029  
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290 295 300 305

40 atg acc cag gac tgc ctg cag cag tcc cgc aaa gtg ggg gac tcc ccc 1077  
Met Thr Gln Asp Cys Leu Gln Gln Ser Arg Lys Val Gly Asp Ser Pro  
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50 gat agc tgc aag ggg gac tcc ggc ggg ccc cat gcc acg cac tat cgc 1173  
Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr Arg  
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55 ggg acc tgg tac ctc acc ggg atc gtc agc tgg ggc cag ggc tgc gcc 1221  
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355 360 365

60 acg gtg ggg cac ttt ggc gtc tac acg cgc gtc agc cag tac att gag 1269  
Thr Val Gly His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile Glu  
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65 tgg ctg cag aag ctc atg cgg agc gaa ccc cgg ccc ggg gtg ctc ctg 1317  
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70 cgg gcc cct ttc cct tga taa 1338  
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5 <211> 406  
 <212> PRT  
 <213> Homo sapiens

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 15 35 40 45  
 Gln Cys Ala Ser Ser Pro Cys Gln Asn Gly Gly Ser Cys Lys Asp Gln  
 50 55 60  
 Leu Gln Ser Tyr Ile Cys Phe Cys Leu Pro Ala Phe Glu Gly Arg Asn  
 65 70 75 80  
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 85 90 95  
 Gly Cys Glu Gln Tyr Cys Ser Asp His Thr Gly Thr Lys Arg Ser Cys  
 100 105 110  
 Arg Cys His Glu Gly Tyr Ser Leu Leu Ala Asp Gly Val Ser Cys Thr  
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 25 Pro Thr Val Glu Tyr Pro Cys Gly Lys Ile Pro Ile Leu Glu Lys Arg  
 130 135 140  
 Asn Ala Ser Lys Pro Gln Gly Arg Ile Val Gly Gly Lys Val Cys Pro  
 145 150 155 160  
 30 Lys Gly Glu Cys Pro Trp Gln Val Leu Leu Leu Val Asn Gly Ala Gln  
 165 170 175  
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 180 185 190  
 35 His Cys Phe Asp Lys Ile Lys Asn Trp Arg Asn Leu Ile Ala Val Leu  
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 Gly Glu His Asp Leu Ser Glu His Asp Gly Asp Glu Gln Ser Arg Arg  
 210 215 220  
 Val Ala Gln Val Ile Ile Pro Ser Thr Tyr Val Pro Gly Thr Thr Asn  
 225 230 235 240  
 40 His Asp Ile Ala Leu Leu Arg Leu His Gln Pro Val Val Leu Thr Asp  
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 45 Leu Ala Phe Val Arg Phe Ser Leu Val Ser Gly Trp Gly Gln Leu Leu  
 275 280 285  
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 50 Pro Asn Ile Thr Glu Tyr Met Phe Cys Ala Gly Tyr Ser Asp Gly Ser  
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 Lys Asp Ser Cys Lys Gly Asp Ser Gly Gly Pro His Ala Thr His Tyr  
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 Arg Gly Thr Trp Tyr Leu Thr Gly Ile Val Ser Trp Gly Gln Gly Cys  
 355 360 365  
 55 Ala Thr Val Gly His Phe Gly Val Tyr Thr Arg Val Ser Gln Tyr Ile  
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<210> 4  
<211> 1357  
<212> DNA  
<213> Artificial Sequence

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<220>  
<223> Description of Artificial Sequence: Expression  
cassette for expression of FVII in mammalian cells

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<210> 5  
<211> 31  
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<220>  
<223> Description of Artificial Sequence: Primer  
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<210> 6  
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